

Solar Oven Project: Sierra Leone Research Component

Name: _____ Topic: _____

Group Partners: _____ ; _____ ;

Each class will be tasked with researching specific elements of Sierra Leone, in particular Lusane if possible, regarding culture, politics, education, agriculture, water and climate and feasibility of the solar ovens.

Each student will be responsible for their own research, collecting and presenting their findings in a useful manner for display on a webpage. Students will create a web-page based from the research fellow students collect and from individual experiences prior, during and after the Community Service Day on the Green.

The goal of the research is to inform students about the conditions and needs of teens and their families in Sierra Leone. Part of the research is reaching out and communicating to the people in the region. This aspect should expand in future years. Students and mentors alike need to realize they do not necessarily know the needs of the community even after completing their research. Through this project, we hope to begin a relationship based on a thirst for knowledge, trust and a desire to be a global citizen. After the website is completed this year, additional classes will be supplement the webpage with articles and pages as we choose new projects with our partners in Lusane.

Should ideas spontaneously arise about other items that are needed or could be included in the website please speak up! This is a project in the making with lots of flexibility. This is the freshmen project and the FRESHMEN VOICE needs to be the loudest!

Good Luck and have fun!

Sample Assignment template per Student/Group needs to be done as a Google doc that you will share with Mrs. C

Student Name Item	Research on Topic with Needs and Ideas included *** You must include a Wok Cited footnote after each piece of research!

Here are some great webpages to get you started. If you find other that you feel are helpful please include them and highlight them for others to use. I will also post this list on the webpage.

You must cite your sources for both content and images! Remember other students will be taking your work to create a webpage and must have the proper URL addresses to use the information.

Sierra Leone Research Starters

General: History & Facts

[BBC News Sierra Leone Profile](#)

[CIA World Factbook](#)

[U.S. Department of State](#)

Political Parties/Election Process: [National Electoral Commission Sierra Leone](#)

Role of Chiefs: [Network Movement for Justice and Development](#)

Education: [BBC News: Getting an Education in Sierra Leone](#)

[UNESCO Institute for Statistics](#)

Teenage Pregnancy & Education: [United Nations - Humanitarian Affairs](#)

Girls Education: [Unicef: The Challenge of Girls Education in Sierra Leone](#)

Women in Sierra Leone: [Social Institutions and Gender Index](#)

Agriculture/Diet: [Food and Agriculture Organization of the United Nations](#)

[Africa Renewal Online](#)

Carbon Footprint USA: [Cool Climate Network: UC Berkeley](#)

Carbon Footprint Sierra Leone: [The World Bank](#)

Item	Topics	Needs	Ideas
1.	Political History over the last several decades		
2.	Political History from 1700 and 1800	Map of Slave trade What is the native language? Why?	Pictures of Sierra Leone (Freetown) Maps
3.	Country Political parties and election process currently		Picture of leaders Link to constitution etc.. governmental buildings.
4.	Difference between country politics and villages	What is the role and power of the chiefs?	
5.	Compare and Contrast the political story with the US and perhaps the Bay Area		Picture of people and towns...?
6.	Education		An image illustrating

	<p>What kind of education does the average child experience? Is there a discrepancy between boys and girls?</p>		<p>various paths</p> <p>Schools, kids in uniforms</p> <p>Where do teachers come from? What is their training? What is their life like?</p>
7.	What prevents a child from getting an education	Is this a need?	Pic or video of a testimonial of a teen
8.	Growing up in Sierra Leone		“”
9.	What can a boy expect during his lifetime? Dreams?	What is the traditional role of the father? Compare to US	“”
10	What can a girl expect during his lifetime? Dreams?	What is the role of the woman in the household when she becomes a mother? Compare to US	“”
11	Do children and teens have choices about their career paths?	Is this determined by wealth? Can you draw some comparisons between being a teenager here in the Bay Area and a teen in Sierra Leone?	“” Graphic showing how many kids go to college and what types of careers they actually attain Compare to US
12	Describe the type of agriculture historically produced in this region. Is there any effort to make a more diverse agriculture community?	Is there a need here? Sending seeds to plant?	Picture of fields unique to SL Flow chart of agriculture process from seed to table? Pie chart of types of food
13	Does the average diet provide essential nutrients for all ages?	Is there a need for vitamins? Can we identify specific crops that can be grown to meet this need? Is there a need in Piedmont for a more balanced diet or in the surrounding Bay Area.	Pics of specific crops needed or already used that supply essential vitamins and minerals Are there kids without enough to eat? Draw some similarities?
14	What is the average carbon and water footprint of a teenager in Sierra Leone compared to a Piedmont Teen?	Is there are need in Piedmont?	Picture of footprint
15	What does Teens want to eat? What do they need to eat?		Pics of adds in the newspaper, or TV?
16	Energy: What are the major types of fuel utilized in Sierra Leone?	How do these fuels affect the community? Are there under utilized	Pics of power plants Solar cells Telephone lines?

		sources of energy? What? Are they realistic to use in Sierra Leone? Why?	Graphic (pie chart) illustrating the comparison of fuel usage
17	What part of daily life is used to deal with the shortage of fuel?	What are some possibilities for solutions? Are these realistic? Why or why not?	Pic of a woman gathering fuel or testimonial
18	Who is responsible for obtaining fuel?		“”
19	Are there health risks related to the fuel used? What does this look like for the family presently and down the road? How is this any different than the past?		“” possibly find an article
20	Climate: Describe the climatic condition for SL. What are the strongest determinants for their climate and what are the expected changes for the climate in the future?	Is there a need to get ready for a change? If so, what and why? Are there any pre-emptive measure that could be taken?	Global map and individual
21	Latitude, Longitude, Biome and smaller communities.	Is solar power a real alternative energy source for them? Wind? Anything else	Pics and or pie charts or other graphs about similar locations and their usage?
22	Water What is availability of fresh, clean water? Is there a set of regulations concerning water and sewer treatment? If water is an issue: Look into Matt Damon’s organization water.org?	Are WAPIs needed? Compare the Water Footprint of a teenager or household in SL to CA	Pic of a WAPI being used somewhere else Picture of water treatment/holding area Water worker Link to government agency responsible for health of the water
23	Diseases What are the top problematic diseases or health related issues in SL compared to CA Why are these diseases so prevalent here?	Ex. Malaria: think of needs like treating water. Making nets for water cisterns etc... Are there possible avenues to take that may lead to a decrease in disease with longer better life expectancy?	Plenty of opps for graphics and pics Life cycles of diseases Etc... Stories of success elsewhere ? or there
24	What do you think is the number one biggest issue that leads to stability and prosperity (health, education, freedom) for both SL and CA Why?	What does this look like? Can you make a picture to represent it? A collage? ...	
25	WONDERFUL STORIES to SHARE	SL boy who came to MIT and his youtube video	